



01-10-05

IFW  
JF

I hereby certify that this transmittal of the below described is being deposited with the United States Postal Service in an envelop bearing First Class Postage and addressed to the Commissioner for patent, PO Box 1450, Alexandria, VA 22313-1450 on the below date of deposit.

Date of Deposit: 1-4-05  
20 December 2004Name of Person Making the Deposit:  
Ramona J. Zaya

Signature:

Inventor(s) **DEBARGHA MUKHERJEE**  
Serial No: **10/698,885**  
Filed: **31 October 2003**Group Art Unit: **2613**  
Examiner: **N/A**  
HP Docket No.: **100201426-1****Title: Data Communications Methods, Compressed Media Data Decoding Methods, Compressed Media Data Decoders, Articles Of Manufacture, And Data Communications Systems****PETITION TO SECURE FILING DATE AS OF MAILING DATE VIA EXPRESS MAIL****PETITION**

1. Applicant petitions that this application be accorded the filing date on which the papers were sent "Express Mail Post Office to Addressee" mailing label No.: EL979977687US on 31 October 2003

**SUBMISSIONS**

2. Submission herewith is:

- A copy of each page of the application showing the executed Express Mail certificate and mailing label number.  
 A copy of the corresponding U.S. Post Office receipt establishing the deposit of the Express Mail on : **31 October 2003**  
 A copy of the returned postcard from the USPTO stamped with the Serial Number and filing date.  
 A copy of the cancelled checks referring to the new application identified above.  
 A copy of the attorneys Deposit Account Statement, in which the items (s) corresponding to the deposit of the application referred to above is checked.  
 A copy attorney's mailing log showing the dispatch of the above identified application as Express Mail label No. \_\_\_\_\_ on \_\_\_\_\_.  
 A copy of the filing receipt received from the USPTO showing the incorrect Filing Date.  
 A copy of the Application Transmittal showing the Certificate of Mailing executed on **31 October 2003**.

**PETITION FEE**

3. The Petition fee (37 C.F.R.1.17(h)-\$130.00) is paid as follows:  
 A check paid in the sum of \$130.00  
 Authorization is hereby made to charge the amount of \$130.00  
 to Deposit Account No. 08-2025  
 to Credit card as shown on the attached credit card information authorization form PTO-2038.  
 Charge any additional fees required by this paper or credit my overpayment in the manner authorized above.  
A duplicate copy of this authorization is attached.

**REQUEST FOR REFUND OF PETITION FEE**

4.  Because no defect exists in applicants' previous submission, a refund of the petition fee is respectfully requested, to be paid by  
 a refund check  
 a credit to the charge authorization account

Please direct all correspondence concerning the above-identified application to the following address:

Hewlett-Packard Company  
Intellectual Property Administration  
PO Box 272400  
Fort Collins, Colorado 80527-2400

1/4/05 STH

Date: 20 December 2004  
Express Mailing label: EV207636256USby:   
Susan E. Heminger  
Reg. No.: 36,449

01/12/2005 BABRAHAI 00000105 082025 10698885

01 FC:1251

120.00 DA

01/21/2005 BABRAHAI 00000028 082025 10698885

01 FC:1464 130.00 DA

Adjustment date: 01/21/2005 BABRAHAI  
01/12/2005 BABRAHAI 00000105 082025 10698885  
01 FC:1251 120.00 CR



10 - 31-2003

PONO. 100201428-1  
Hewlett Packard Company

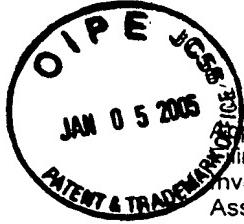
The stamp of the U.S. Patent and Trademark Office acknowledges receipt of the application for letters patent of the following:

Applicant: Debargha Mukherjee  
Title: Data Communications Methods, Compressed Media Data Decoding  
Methods, Compressed Media Data Decoders, Articles of Manufacture, and  
Data Communications Systems

- Return Postcard Receipts (2)  
1. PTO Utility Application Transmittal Form (PTO/SB/05)  
2. 34 pages of Specification, Claims and Abstract  
3. Inventor's Declaration  
4. 7 sheets of formal drawings (Figs. 1-14)  
5. Information Disclosure Statement with Form PTO-1449  
6. Cited References (10)

E1979977687

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Application Serial No. .... Filed Herewith  
 Filing Date ..... Filed Herewith  
 Inventorship ..... Debargha Mukherjee  
 Assignee ..... Hewlett - Packard Company  
 Group Art Unit ..... Unknown  
 Examiner ..... Unknown  
 Attorney's Docket No. .... 100201426-1(HE53-044)  
 Title: Data Communications Methods, Compressed Media Data Decoding Methods, Compressed Media Data Decoders, Articles of Manufacture, and Data Communications Systems

**EX POST DECLARATION OF EXPRESS MAILING**

I hereby declare that I have deposited the below-listed papers with the United States Postal Service "Express Mail Post Office to Addressee" service, addressed and posted as indicated below, in compliance with 37 CFR 1.10. The Express Mail label No. has been placed on one or more of the papers listed.

Express Mail Number: E1929977687  
 Date of Deposit: 4/30/03  
 Time of Deposit: 4:38 AM/PM  
 Deposited By:  Delivery to Postal Employee

Addressee: MAIL STOP PATENT APPLICATION  
 COMMISSIONER FOR PATENTS  
 P.O. BOX 1450  
 ALEXANDRIA VA 22313-1450

Place of Deposit:

- |  |  |
|--|--|
| <input type="checkbox"/> U.S. Post Office (Paulsen Bldg. Br.)<br>421 West Riverside, Room 201<br>Spokane, Washington 99201<br>Last Scheduled Drop Box Pickup: 4:40 pm  | <input type="checkbox"/> U.S. Post Office (DIST. CTR.)<br>2928 S. Spotted Road<br>Spokane, Washington 99202<br>Last Scheduled Drop Box Pickup: 9:00 pm |
| <input checked="" type="checkbox"/> U.S. Post Office (Riverside Station)<br>904 West Riverside<br>Spokane, Washington 99201<br>Last Scheduled Drop Box Pickup: 5:00 pm | <input type="checkbox"/> U.S. Post Office _____ Branch<br><br>Last Scheduled Drop Box Pickup:__ am/pm  |

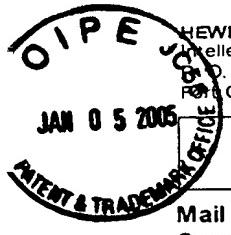
Listing Of Items Enclosed In Mailing:

1. Return Postcard Receipts (2)
2. PTO Utility Application Transmittal Form (PTO/SB/05)
3. 34 pages of Specification, Claims and Abstract
4. Inventor's Declaration
5. 7 sheets of formal drawings (Figs. 1-14)
6. Information Disclosure Statement with Form PTO-1449
7. Cited References ( 10 )

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statement may jeopardize the validity of the application or any patent issued therefrom.

Dated this 31 day of October, 2003 Dated at Spokane, Washington

Trinity Coxon  
 Trinity Coxon



**HEWLETT-PACKARD COMPANY**  
Intellectual Property Administration  
P.O. Box 272400  
Fort Collins, Colorado 80527-2400

**PATENT APPLICATION**

ATTORNEY DOCKET NO. 100201426-1

**IN THE U.S. PATENT AND TRADEMARK OFFICE**  
**Patent Application Transmittal Letter**

**Mail Stop Patent Application  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450**

EL979957687

Sir:

Transmitted herewith for filing under 37 CFR 1.53(b) is a(n):  Utility     Design

(X) original patent application,

( ) continuation-in-part application

**INVENTOR(S): Debargha Mukherjee**

**TITLE:** Data Communications Methods, Compressed Media Data Decoding Methods, Compressed Media Data Decoders, Articles of Manufacture, and Data Communications Systems

Enclosed are:

- (X) The Declaration and Power of Attorney. ( ) signed (X) unsigned or partially signed  
(X) 7 sheets of drawings (one set) ( ) Associate Power of Attorney  
( ) Form PTO-1449 (X) Information Disclosure Statement and Form PTO-1449  
( ) Priority document(s) (X) (Other) Return Receipt Postcards (2) (fee \$ \_\_\_\_\_)  
Cited References (10)

CLAIMS AS FILED BY OTHER THAN A SMALL ENTITY				
(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) TOTALS
TOTAL CLAIMS	37 — 20	17	X \$18	\$ 306
INDEPENDENT CLAIMS	5 — 3	2	X \$86	\$ 172
ANY MULTIPLE DEPENDENT CLAIMS	0		\$290	\$ 0
BASIC FEE: Design ( \$340.00 ); Utility (\$770.00 )				\$ 770
TOTAL FILING FEE				\$ 1,248
OTHER FEES				\$
TOTAL CHARGES TO DEPOSIT ACCOUNT				\$ 1,248

Charge \$ 1.248 to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees. A duplicate copy of this sheet is enclosed.

"Express Mail" label no. EL 979977687 US

Date of Deposit 10/31/03

Respectfully submitted

Debargha Mukherjee

By 

**James D. Shaurette**

Attorney/Agent for

Reg. No. 39,833 /

Date: 1/13/20

Date: 10/31/05

Telephone No.: (509) 624-4276



DATA COMMUNICATIONS METHODS, COMPRESSED MEDIA DATA DECODING  
METHODS, COMPRESSED MEDIA DATA DECODERS, ARTICLES OF  
MANUFACTURE, AND DATA COMMUNICATIONS SYSTEMS

FIELD OF THE INVENTION

[0001] Aspects of the invention relate to data communications methods, compressed media data decoding methods, compressed media data decoders, articles of manufacture, and data communications systems.

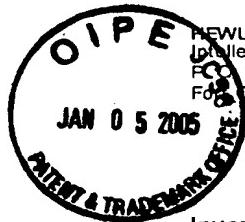
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BACKGROUND OF THE INVENTION

[0002] Interactive media sessions are increasing in popularity. As the processing power of computers continues to increase, and communications bandwidth of communications devices is improved, the popularity of interactive media communications is also expected to increase. However, to date, the substantial focus has been on media delivery with relatively little advancements for interactive media experiences.

[0003] Some arrangements of video coding use a plurality of images of a sequence. In some implementations, the images of the sequence are decoded linearly in time. However, for interactive viewing, a user may randomly request specific images out of linear order as the user navigates an image. Exemplary interactive media communications sessions may involve 3D graphics or other rich interactive media having very large files (even after compression) to be communicated and processed. The amount of data increases exponentially with richness and raises formidable issues in distribution and experience of the media over the Internet.

[0004] In many situations, it may not be possible to communicate the associated files to clients in entirety before experience commences. In fact, even very high bandwidth connections by modern standards may not be able to accommodate these interactive media files. This problem is compounded by the presence of clients connecting to a source of the interactive media files having diverse capabilities. For example, at least some of the clients may be coupled with relatively slow communications connections, use computers of relatively slow processing capabilities, or use computers with limited display capabilities.



HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
PO Box 272400  
Fort Collins, Colorado 80527-2400

JAN 05 2005

PATENT APPLICATION

ATTORNEY DOCKET NO. 100201426-1

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Debargha Mukherjee

Confirmation No.:

Application No.:

Examiner:

Filing Date:

Group Art Unit:

Title: Data Communications Methods, Compressed Media Data Decoding Methods, Compressed Media Data Decoders, Articles of Manufacture, and Data Communications Systems

Commissioner for Patents

PO Box 1450  
Alexandria, VA 22313-1450

EL979977687

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- (X) under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ( ) under 37 CFR 1.97(c) together with either a:  
( ) Statement under 37 CFR 1.97(e), or  
( ) a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ( ) under 37 CFR 1.97 (d) together with a:  
( ) Statement under 37 CFR 1.97(e)(1) or (2), and  
( ) a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. **EL 979977687 US**

Date of Deposit

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By Trinity Coxon

Typed Name: Trinity Coxon

Respectfully submitted,

Debargha Mukherjee

By James D. Shaurette

James D. Shaurette  
Attorney/Agent for Applicant(s)  
Reg. No. 39,833

Date: 10/31/03

Telephone No.: (509) 624-4276



PATENT APPLICATION

Sheet 2 of 2

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION NO.
100201426-1		
APPLICANT		
Debargha Mukherjee		
FILING DATE		GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
2A				
2B				
2C				
2D				
2E				
2F				EL970977687
2G				
2H				
2I				
2J				
2K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	2L					
	2M					
	2N					
	2O					
	2P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	2Q	"System, Method and Format Thereof For Scalable Encoded Media Delivery"; Mukherjee et al.; U.S. patent application Serial No. 10/196,506; Filed 7/15/2002; client docket no. 100202339-1.
	2R	
	2S	

EXAMINER

DATE CONSIDERED



PDNO: 100201426-1  
Hewlett Packard Company

M

10-31-2003

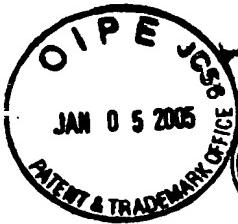
The stamp of the U.S. Patent and Trademark Office acknowledges receipt of the application for letters patent of the following:

Applicant: Debangha Mukherjee  
Titled: Data Communications Methods, Compressed Media Data Decoding Methods, Compressed Media Data Decoders, Articles of Manufacture, and Data Communications Systems

1.	Return Postcard Receipts (2)		
2.	PTO Utility Application Transmittal Form (PTO/SB/05)	17548 U.S. PTO	
3.	<u>34</u> pages of Specification, Claims and Abstract:	10/698885	
4.	Inventor's Declaration		
5.	7 sheets of formal drawings (Figs. 1-14)		
6.	Information Disclosure Statement with Form PTO-1449		
7.	Cited References (10)	10/31/03	



EL979977687



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE RECD	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/698,885	10/30/2003	2613	1248	100201426-1	7	37	5

HEWLETT-PACKARD COMPANY  
 Intellectual Property Administration  
 P.O. Box 272400  
 Fort Collins, CO 80527-2400

RECEIVED

FEB 05 2004

HP LEGAL  
IPA

CONFIRMATION NO. 2006

FILING RECEIPT



\*OC000000011803937\*

Date Mailed: 02/02/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)  
 Debargha Mukherjee, San Jose, CA;

Domestic Priority data as claimed by applicant

## Foreign Applications

If Required, Foreign Filing License Granted: 01/30/2004

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

## Title

Data communications methods, compressed media data decoding methods, compressed media data decoders, articles of manufacture, and data communications systems

## Preliminary Class

348

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**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184. If the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

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No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).